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APPLICATION NO. FILING DAT		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/071,873	02/08/2002	James Richmond	E00378.70179/JHM/DPM	8737	
23628	7590 07/16/2003				
WOLF GREENFIELD & SACKS, PC			_ EXAMINER		
600 ATLAN	RESERVE PLAZA TIC AVENUE	REVAK, CHRISTOPHER A			
BOSTON, M	IA 02210-2211		ART UNIT	PAPER NUMBER	
			2131		
			DATE MAILED: 07/16/2003	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.		Applicant(s)			
,	10/071,873		RICHMOND ET AL.			
Office Action Summary	Examiner		Art Unit			
	Christopher A. Re		2131	<u> </u>		
The MAILING DATE of this communication app Period for Reply	pears on the cover	sheet with the co	orrespondence add	ress		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, howe by within the statutory mini will apply and will expire S a, cause the application to	ver, may a reply be tim mum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timely. he mailing date of this con 0 (35 U.S.C. § 133).	nmunication.		
1) Responsive to communication(s) filed on	<u> </u> <u> </u>			
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-fir	nal.				
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims				merits is		
4) Claim(s) 1-46 is/are pending in the application	n. .					
4a) Of the above claim(s) is/are withdra		ation.		•		
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-46</u> is/are rejected.						
7) Claim(s) is/are objected to.	• •					
8) Claim(s) are subject to restriction and/o	or election requirer	ment.		•		
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the				_		
11) The proposed drawing correction filed on			ved by the Examine	ſ.		
If approved, corrected drawings are required in re	• •	.1011.				
, <u> </u>	xariirier,		•			
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreig	n priority under 25) (d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	in priority under 30	10.3.0. § 119(a)-(d)			
	ts have been rece	ived				
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the prior		* *		Stage		
application from the International Be * See the attached detailed Office action for a list	ureau (PCT Rule 1	7.2(a)).				
14) ☐ Acknowledgment is made of a claim for domes	tic priority under 3	5 U.S.C. § 119(e	e) (to a provisional	application).		
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	4)		r (PTO-413) Paper No(s Patent Application (PTC			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on June 11, 2002 and June 20, 2002 was filed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Specification

2. The disclosure is objected to because of the following informalities: On page 1, it is listed of a related application with an attorney docket number which should be replaced with the corresponding U.S. serial number for the co-pending application.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nessett et al in view of Dixon et al.

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As per claims 1,17,33,35, and 40, it is disclosed by Nessett et al of distributing firewall functionality into network devices such as network cards which include a policy definition component that accepts (configures) policy data (packet rules) that define how the firewall should behave (column 3, lines 22-27,29-34). Nessett et al disclosed that the network interface cards are attached to an end system through it internal I/O bus (port module) and provides access (entry point) to a Local Area Network (column 11, lines 25-28). The user is authenticated prior to granting authorization (based on the packet rules) to access resources from the Internet (column 15, lines 43-46). The teachings of Nessett et al disclose of authenticating a user prior to granting access to use resources (column 15, lines 41-46), but are silent in disclosing of configuring packet rules corresponding to the identity of a user. It is disclosed by Dixon et al. of authenticating a user (to establish their identity) and then establishing a user security context (rules) for traffic (packet) for a user and once authenticated, provides authorization based on the security context for that user (page 1, paragraph 11, lines 1-5). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to apply the teachings of Dixon et al as a means of a distributed firewall pertaining to a specific user. Dixon et al recites motivation for use of this concept by teaching that prior art security protocols in distributed firewalls provide authentication only at a machine level (page 1, paragraph 10, lines 3-4) and the teachings of Dixon et al solve that problem by authenticating individual users and not individual

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machines whereby the prior art has no means of knowing when a plurality of different users are accessing a secure machine to gain access to network resources (page 2, paragraph 10, lines 9-14). It would have been obvious that the teachings of Nessett et al would have benefited from the motivation of Dixon et al as a means-of authenticating a particular user and not the actual device as is taught by Dixon et al.

As per claims 2,18,39, and 44, it is disclosed by Dixon et al of authenticating a user prior to granting authorization (page 1, paragraph 11, lines 1-5). The examiner supplies the same rationale for the motivation as recited in the rejection of claims 1,17,33,35, and 40 to modify the teachings of Nessett et al.

As per claims 3,4,19, and 20, the teachings of Nessett et al disclose of distributing firewall functionality into network devices such as network cards which include a policy definition component that accepts (configures) policy data (packet rules) that define how the firewall should behave (column 3, lines 22-27,29-34). Dixon et al is relied upon for authenticating a user (to establish their identity) and then establishing a user security context (rules) for traffic (packet) for a user and once authenticated, provides authorization based on the security context for that user (page 1, paragraph 11, lines 1-5). The examiner supplies the same rationale for the motivation as recited in the rejection of claims 1,17,33,35, and 40 to modify the teachings of Nessett et al. The combination of the teachings of Nessett et al and Dixon et al are silent in disclosing of applying the

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packet rules until a user logs off the communication network. The examiner hereby takes official notice that packet rules until a user logs off the communication network are notoriously well known. It would have been obvious to a person of ordinary skill in the art at the time of the invention that it is known to close sessions and corresponding rules applying to that session once a user has logged off the communication network. It is notoriously well known that a security feature of closing security features once a user has logged off a communications network is a common feature which protects the integrity of a security policy when a user is not currently logged in and active. By requiring a user to relog-in, the security policy (packet rules) is re-instated based upon reentry of a user into the system which would protect the integrity of the security policy against an unauthorized user from gaining access to the security policy (packet rules) when they are not properly authenticated and authorized to participate in the security policy. It is obvious that the combined teachings of Nessett et al and Dixon et al would have used the concept of applying the packet rules until a user logs off the communication network.

As per claims 5-7,21-23,37,38,42, and 43, it is disclosed by Nessett et al of distributing firewall functionality into network devices such as network cards which include a policy definition component that accepts (configures) policy data (packet rules) that define how the firewall should behave (column 3, lines 22-27,29-34). Nessett et al disclosed that the network interface cards are attached to an end system through it internal I/O bus (port module) and provides access

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(entry point) to a Local Area Network (column 11, lines 25-28). Dixon et al is relied upon for authenticating a user (to establish their identity) and then establishing a user security context (rules) for traffic (packet) for a user and once authenticated, provides authorization based on the security context for that user (page 1, paragraph 11, lines 1-5). The user authentication and application/purpose (identity and role) is provided (page 2, paragraph 13, lines 2-3). The examiner supplies the same rationale for the motivation as recited in the rejection of claims 1,17,33,35, and 40 to modify the teachings of Nessett et al.

As per claims 8 and 24, Nessett et al discloses of distributing firewall functionality into network devices such as network cards and routers (for routing packets) which include a policy definition component that accepts (configures) policy data (packet rules) that define how the firewall should behave (column 3, lines 22-27,29-34).

As per claims 9 and 25, Nessett et al discloses of filtering packets and dropping them based on the values in their headers (column 1, lines 20-23) based on the policy (packet rules)(column 3, lines 22-27,29-34).

As per claims 10-12 and 26-28, Nessett et al discloses of making changes to the network topology (which includes packet creation/modification/adding) and requires the policy data to be reconfigured (column 17, line 65 through column 18, line 5).

As per claims 13 and 29, the combined teachings of Nessett et al and Dixon et al are silent in disclosing of controlling the amount of bandwidth

consumed by a user. The examiner hereby takes official notice that the use of controlling bandwidth is notoriously well known. It would have been obvious to a person of ordinary skill in the art at the time of the invention to be motivated to apply bandwidth consumption measures on a user. It is notoriously well known that high bandwidth consumption can affect the operations of a network. It isknown that high bandwidth consumption by transferring large amounts of data restricts other's ability to transfer data since only there exists a threshold of the amount of data that can be transferred. By restricting the amount of bandwidth a user is entitled to, it allows an equal opportunity to other users to allow sharing of the available bandwidth whereby one user can not use the majority of the bandwidth by themselves. It is obvious that the combined teachings of Nessett et al and Dixon et al would have used this feature of limiting bandwidth to users so that all users have an equal opportunity to transfer information.

As per claims 14-16 and 30-32, Nessett et al discloses of distributing firewall functionality into network devices such as network cards which include a policy definition component that accepts (configures) policy data (packet rules) that define how the firewall should behave (controlling access to devices and resources/applications)(column 3, lines 22-27,29-34). Nessett et al disclosed that the network interface cards are attached to an end system through it internal I/O bus (port module) and provides access (entry point) to a Local Area Network (column 11, lines 25-28). The user is authenticated prior to granting

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authorization (based on the packet rules) to access resources from the Internet (column 15, lines 43-46).

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As per claims 34 and 46, it is disclosed by Nessett et al of distributing firewall functionality into network devices such as network cards which include a policy definition component that accepts (configures) policy data (packet rules) that define how the firewall should behave (column 3, lines 22-27,29-34). Nessett et al disclosed that the network interface cards are attached to an end system through it internal I/O bus (port module) and provides access (entry point) to a Local Area Network (column 11, lines 25-28). The user is authenticated prior to granting authorization (based on the packet rules) to access resources from the Internet (column 15, lines 43-46). The teachings of Nessett et al is silent in disclosing of a computer program product comprising a computerreadable medium and computer-signals stored on the computer-readable medium that define instructions when executed by a computer to instruct the computer to perform the process. The examiner hereby takes official notice that it would have been obvious to a person of ordinary skill in the art that the teachings of Nessett et al comprise a memory for storing computer readable code and a processor coupled to memory that is configured to execute the computer readable code in order for the teachings to be performed as disclosed. The software program (computer readable code) and necessary hardware (processor and memory) to perform the necessary tasks are notoriously known to one of skill in the art as an essential part of computing. It is obvious that the

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teachings Nessett et al exist in the form of a software program (computer readable code) and are utilized by the hardware, namely stored in memory and a processor interprets, processes, and performs the task of enforcing a distributed firewall in a network device such as a network interface card.

The teachings of Nessett et al disclose of authenticating a user prior to granting access to use resources (column 15, lines 41-46), but are silent in disclosing of configuring packet rules corresponding to the identity of a user. It is disclosed by Dixon et al of authenticating a user (to establish their identity) and then establishing a user security context (rules) for traffic (packet) for a user and once authenticated, provides authorization based on the security context for that user (page 1, paragraph 11, lines 1-5). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to apply the teachings of Dixon et al as a means of a distributed firewall pertaining to a specific user. Dixon et al recites motivation for use of this concept by teaching that prior art security protocols in distributed firewalls provide authentication only at a machine level (page 1, paragraph 10, lines 3-4) and the teachings of Dixon et al solve that problem by authenticating individual users and not individual machines whereby the prior art has no means of knowing when a plurality of different users are accessing a secure machine to gain access to network resources (page 2, paragraph 10, lines 9-14). It would have been obvious that the teachings of Nessett et al would have benefited from the

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motivation of Dixon et al as a means of authenticating a particular user and not the actual device as is taught by Dixon et al.

As per claims 36 and 41, Nessett et al discloses that the network interface cards are attached to an end system through it internal I/O bus (port module) and provides access (entry point) to a Local Area-Network (column-11, lines 25-28).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jalava et al, US 2003/0118038

Levy et al, U.S. Patent 6,212,633

Reid et al, U.S. Patent 6,182,226

Levy et al, U.S. Patent 6,134,662

DeRosia et al, 'Firewalls'

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Revak whose telephone number is 703-305-1843. The examiner can normally be reached on M-Th, 6:30a-4:00p, alt. Fr, 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9586. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

CR July 12, 2003